

WHAT IS CLAIMED IS:

1. A method of verifying and managing multiple systems in a wireless communications device, comprising:

preparing multiple wireless communications systems in the wireless communications device;

enabling the wireless communications device to use a first network interface to log in a first network system to form a regular line connection after a verification process;

enabling the wireless communications device to use a second network interface to log in a second network system to establish a line connection after a cross verification process;

determining whether the wireless communications device is using the second network system to provide services similar to the first network system; if the wireless communications device is using the second network system in said manner, the system temporarily halts the existing link with the first network system; and

determining whether the above services from the second network system through the second network interface have terminated; if the above services have terminated, the system resumes the original link with the first network system through the first network interface after the verification process.

2. The method as claimed in claim 1, wherein the first network system is a mobile phone network.

3. The method as claimed in claim 2, wherein the mobile phone network is GPRS.

1 4. The method as claimed in claim 2, wherein the mobile phone network
2 is GSM.

3 4. The method as claimed in claim 1, wherein the second network
4 system is a wireless local area network (WLAN).

5 5. The method as claimed in claim 3, wherein the second network
6 system is a wireless local area network (WLAN).

7 6. The method as claimed in claim 4, wherein the second network
8 system is a wireless local area network (WLAN).

9 7. The method as claimed in claim 4, wherein using the second network
10 system to provide services similar to the first network system is where a network
11 user uses a net phone (VoIP) through the wireless local area network (WLAN) to
12 make a telephone call to a remote user.

13 8. The method as claimed in claim 5, wherein using the second network
14 system to provide services similar to the first network system is where a network
15 user uses a net phone (VoIP) through the wireless local area network (WLAN) to
16 make a telephone call to a remote user.

17 9. The method as claimed in claim 6, wherein using the second network
18 system to provide services similar to the first network system is where a network
19 user uses a net phone (VoIP) through the wireless local area network (WLAN) to
20 make a telephone call to a remote user.

21 10. The method of cross verification according to claim 1, wherein the
22 wireless communications device is a personal computing device coupled with a
23 transceiver or Bluetooth module.

24 11. The method of cross verification according to claim 1, wherein the

1 wireless communications device is a wireless repeater connected to a personal
2 computing device.

3 12. The method as claimed in claim 10, wherein the personal computing
4 device is a personal computer, a notebook computer, a flat panel computer or a
5 personal digital assistant (PDA).

6 13. A cross verification apparatus for cross-verification of wireless
7 communications system, the apparatus comprising:

8 a microprocessor (10), for data processing, interfacing of wireless
9 communications system and serving as a control hub;

10 a data switch (20) formed by at least two multiplexers (21) (22), which
11 are respectively connected to two SIM sockets (23) (24), wherein one of the two
12 multiplexers (21) (22) controls a path from a first network interface (11) to two
13 SIM cards loaded in the two SIM sockets (23) (24);

14 a card reader (30), which connects to the two SIM cards in the two SIM
15 sockets (23) (24) through the data switch (20);

16 a data link module (40) connected in between the microprocessor (10)
17 and the card reader (30) for controlling bi-directional data communications; and

18 a second network interface (12) connected to the microprocessor (10),
19 through which the second network interface (12) is connected to the data link
20 module (40), card reader (30), and data switch (20), and further connected to the
21 two SIM cards loaded in the two SIM socket (23) (24);

22 whereby the first network interface (11) is able to be switched to one of
23 the SIM cards through the data switch (20) to log in the respective network
24 system and establish a line connection after the cross-verification process;

1 the card reader (30) is able to access data from one of the SIM cards
2 through the data switch (20), and then pass the data to the microprocessor (10) to
3 initiate a connection through the second network interface (12) to the second
4 network system.

5 14. The cross verification apparatus as claimed in claim 13, wherein the
6 first network interface (11) is based on the GPRS/GSM system.

7 15. The cross verification apparatus as claimed in claim 13, wherein the
8 second network interface (12) is a transceiver for a WLAN.

9 16. The cross verification apparatus as claimed in claim 13, wherein the
10 cross verification apparatus is installed in a wireless communications device.

11 17. The cross verification apparatus as claimed in claim 16, wherein the
12 wireless communication device is a personal computer, a notebook computer, a
13 flat panel computer or a personal digital assistant (PDA).

14 18. The cross verification apparatus as claimed in claim 13, wherein the
15 cross verification apparatus is set up as a separate peripheral device with line
16 connection to the personal computing device.

17 19. The cross verification apparatus as claimed in claim 13, wherein the
18 cross verification apparatus is embedded in a repeater.